

Title: Horizontal energy storage system

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**ABSTRACT** This study optimizes fin height and configuration angle in the lower section of a latent heat thermal storage (LHTS) system to enhance thermal performance. Using numerical ...

Implementing thermal energy storage for the recovery of massive and intermittent waste heat represents crucial milestone for energy-intensive sectors such as iron and steel industry. However, the ...

In this study, we use numerical simulations to study the melting process of a phase-change material (PCM) in a rectangular domain.

In this study, the energy storage behavior (melting or charging) and energy removal process (solidification or discharging) are investigated in the presence of paraffin wax as a phase ...

In conclusion, this research reveals the feasibility of using horizontal wells in the ATES system, a novel approach that expands the possibility of geothermal energy storage.

This study focuses on the performance of a shallow, horizontal thermal energy storage system in San Diego.

Implementing thermal energy storage system for energy intensive industrial processes such as mining industry is regarded as viable alternative to increase the energy efficiency by capturing...

As global renewable energy capacity surges past 4,500 GW in 2025, horizontal energy storage tanks have emerged as critical infrastructure for solar and wind projects.

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Mechanical storage systems are primarily integrated into energy grid management to mitigate fluctuations and enhance stability. These systems are particularly valuable in regions with ...



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